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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/940,296	08/27/2001	Sithian Pandian	MBM1270	7256	
. 75	90 08/02/2004	2004		EXAMINER	
Lisa A. Haile Gray, Cary, Ware & Freidenrich 4365 Executive Drive, Suite 1100 San Diego, CA 92121			FORMAN, BETTY J		
			ART UNIT	PAPER NUMBER	
			1634		
				DATE MAN ED. 00/02/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/940,296	PANDIAN ET AL.			
Office Action Summary	Examiner	Art Unit			
	BJ Forman	1634			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPI THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply within the statutory minimum of thirty will apply and will expire SIX (6) MONT te, cause the application to become AB	ply be timely filed (30) days will be considered timely. (HS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 02.	July 2004.				
<u> </u>	is action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 1-4 and 13-29 is/are pending in the at 4a) Of the above claim(s) 13-24 is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-4 and 25-29 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/	wn from consideration.				
Application Papers					
9) The specification is objected to by the Examin 10) The drawing(s) filed on 27 August 2001 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	a)⊠ accepted or b)⊡ objectrawing(s) be held in abeyand ction is required if the drawing(s	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list	ts have been received. ts have been received in Ap prity documents have been r au (PCT Rule 17.2(a)).	oplication No received in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08	Paper No(s)	Immary (PTO-413) /Mail Date ormal Patent Application (PTO-152)			
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	6) Other:				

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

DETAILED ACTION

Status of the Claims

1. This action is in response to papers filed 2 July 2004 in which claims 1 and 2 were amended. The amendments have been thoroughly reviewed and entered.

The previous rejections in the Office Action dated 2 February 2004 are withdrawn in view of the amendments. The previous Office Action indicated that Claims 25-29 are free of the prior art and in condition for allowance. However, upon further review and new grounds for rejection, the claims are not deemed allowable.

This Application has been transferred to a new examiner. Please address future corresponded to BJ Forman, Art Unit: 1634.

New grounds for rejection are discussed.

Claims 13-14 are withdrawn from consideration.

Claims 1-4 and 25-29 are under prosecution.

Specification

2. The abstract of the disclosure is objected to because it contains more than 150 words. Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-4, 25-26 and 27-28 are rejected under 35 U.S.C. 102(e) as anticipated by Urdea (U.S. Patent No. 5,656,731, filed 1 July 1993).

Regarding Claim 1, Urdea discloses an amplification probe comprising at least two nucleic acid sequences (i.e. A-B and C) wherein B includes a sequence complementary to a sequence on a primary probe and a sequence complementary to a nucleic acid target (i.e. A-to-a' region of the capture probe as illustrated in Fig. 2-2 and the promoter sequence, B) (Column 6, lines 22-48) and a second region including more than two sequence units of more than one type i.e. Urdea teaches the probe comprises 3-50 (more than 2) sequence units wherein the sequence units are different (Column 8, lines 12-25). The term "labellable" is a recitation of intended use, however, Urdea teaches the sequence units are labellable via hybridization with labeled probes (Column 15, lines 45-54).

The courts have stated that a claim containing a "recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus" if the prior art apparatus teaches all the structural limitations of the claim. Ex parte Masham, 2 USPQ2d 1647 (Bd. Pat. App. & Inter. 1987).

Regarding Claim 2, Urdea discloses the number of sequence units ranges from three to fifty (Column 8, lines 12-20).

Regarding Claim 3, Urdea discloses the probes wherein each sequence unit comprising a nucleotide sequence hybridizable to a complementary sequence on a probe wherein the label is covalently attached to the probe (Column 15 lines 47-54 and Column 16, line 51-Column 17, line 3).

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It is noted that the recitation "hybridizable to a complementary sequence on a labelling probe" is a recitation of intended use which does not define or limit the probe. It is further noted that the recitation "said labelling probe covalently attached to a detectable chemical label" does not define or describe the claimed probe. While Urdea teach the intended uses as recited, it is because Urdea teaches the claimed structural limitations of the probe, that they anticipate the claimed probe.

Regarding Claim 4, Urdea discloses the sequence units of between 16 and 100 nucleotides (Column 8, lines 18-20).

Regarding Claims 25 and 27, Urdea discloses a system/kit comprising a nucleic acid probe comprising a sequence complementary to the sequence to be detected i.e. capture probe (Fig. 3), amplification probe comprising at least two nucleic acid sequences (i.e. A-B and C) wherein B includes a sequence complementary to a sequence on a primary probe and a sequence complementary to a nucleic acid target (i.e. A-to-a' region of the capture probe as illustrated in Fig. 2-2 and the promoter sequence, B) (Column 6, lines 22-48) and a second region including more a plurality of sequence units i.e. Urdea teaches the probe comprises 3-50 (more than 2) sequence units wherein the sequence units are different (Column 8, lines 12-25) and wherein the label is covalently attached to the probe (Column 15 lines 47-54 and Column 16, line 51-Column 17, line 3 and Column 18, lines 10-26) and wherein the system/kit further comprises an antibody capable of binding to the hybrids (Column 4, lines 24-35).

Regarding Claim 26 and 28, Urdea discloses the system/kit further comprises hybridization buffers and wash solution (Column 18, lines 23-25) which they define as including salts (Column 15, lines 13-45).

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Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claim 29 rejected under 35 U.S.C. 103(a) as being unpatentable over Urdea (U.S. Patent No. 5,656,731, filed 1 July 1993).

Regarding Claim 29, Urdea discloses a system/kit comprising a nucleic acid probe comprising a sequence complementary to the sequence to be detected i.e. capture probe (Fig. 3), amplification probe comprising at least two nucleic acid sequences (i.e. A-B and C) wherein B includes a sequence complementary to a sequence on a primary probe and a sequence complementary to a nucleic acid target (i.e. A-to-a' region of the capture probe as illustrated in Fig. 2-2 and the promoter sequence, B) (Column 6, lines 22-48) and a second region including more a plurality of sequence units i.e. Urdea teaches the probe comprises 3-50 (more than 2) sequence units wherein the sequence units are different (Column 8, lines 12-25) and wherein the label is covalently attached to the probe (Column 15 lines 47-54 and Column 16, line 51-Column 17, line 3 and Column 18, lines 10-26) and wherein the system/kit further comprises an antibody capable of binding to the hybrids (Column 4, lines 24-35).

Urdea further teaches their probes are useful for detecting known targets in foods (Column 13, lines 45-51) but they do not specifically teach detecting E. coli. However, E.coli are well known as being in foods wherein the detection of E.coli is of great important. Hence, the teaching of Urdea clearly suggests using the probes and kits for detecting E.coli. Therefore, it would have been obvious to one of ordinary skill in the art at the time the claimed invention was made to apply the probes and kits of Urdea as a diagnostic kit for the detection of E.coli based on the clear suggestion to do so.

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Conclusion

- 7. No claim is allowed.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to BJ Forman whose telephone number is (571) 272-0741. The examiner can normally be reached on 6:00 TO 3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Benzion can be reached on (571) 272-0782. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to (571) 272-0547.

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For all other customer support, please call the USPTO Call Center (UCC) at 800-786-9199.

BJ Forman, Ph.D. Primary Examiner Art Unit: 1634

July 30, 2004